



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

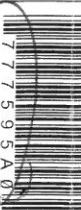
Page 1 of 1

Shipment No: 2825158

Ship From:	Sold To:	Ship To:	Deliver To:
A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped	F.O.B.	Freight Terms	Carrier
17-DEC-15	ORIGIN	Prepaid	MANITOU LIN
			BOL No
			2825158-2

Shipment Details

Final Destination Branch - TOR

Order No	Line No	Item No	Description	Ordered Qty	Invoice Qty		
4157281	7	752188.MO	1.0070.P.L.7075.T654.ALUMINUM.US1.48.5000.144.5000 CUT 281ED TO 6 IN (+ .1250/- .0000 IN) X 138 IN (+ .1250/- .0000 IN) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12	1.00 PCS	1.00 PCS		
Purchase Order No	Part Number		Details				
30678			ALL PAPERWORK MUST FOLLOW ORDER. CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS				
Delivery No.	Mill	Heat Number	Mech Id	PCS	Width (IN)	Length (IN)	Shipped Qty(LBS)
120272296		 777595A08		1			86.2207

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material and the certificate cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

David L.

Date: Name:

DEC 17 2015

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US Law is Prohibited.

Date Printed: 17-DEC-2015 04:24:50 PM



CERTIFIED TEST REPORT

Serial Number
4387495

SOLD TO:
AM CASTLE & CO - SOLD TO
1420 KENSINGTON RD
SUITE 220
OAK BROOK, IL 60523

SHIP TO:
A M CASTLE & CO
3050 SOUTH HYDRAULIC
WICHITA, KS 67216

CUSTOMER PO NUMBER: 335578		WORK PACKAGE: 752188		SHIP RUN/LOAD: 103299/16		GOVT CONTRACT NUMBER:	
KAISER ORDER NO: 1194298	LINE ITEM: 1	SHIP DATE: 19-AUG-2015	CLAD: BARE	TEMPER: 1651	PRODUCT DESCRIPTION: Kaiser Select Plate		
WEIGHT SHIPPED: 3620 LB	QUANTITY: 5 PCS EST.	TRUCK B/L #: 2055580	GAUGE: 1.0000 IN	DIA/ETERM/DTH: 48.500 IN	LENGTH: 144.500 IN		

MHU 1915151: LOT 777595A0: 5 pieces:

Certified Specifications

AMS 4045/RevK
ASTM B 209/Rev14
BSS 7055/RevB
DPS 4.713/RevAK
PS 21211/RevM
AMS-00-A-250/12/RevA
ASTM B 594/Rev13
CMMP 025/RevU
GAMPS 9101/RevB/AmDSCN1
AMS-STD-2154/RevA
BAC 5439/RevJ
CSTI 006/RevE
GSS16100/RevG/AmD1

Test Code: 1512

Test Results

Lot: 777595A0 Cast 829 Drop 30 Ingot 4 Parent Lot: 143790B4 Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile: Temper

1651

Dir / # Tests
LT / 2 (Min:Max)

Ultimate KSI (MPA)

82.1 : 92.3

Yield KSI (MPA)

71.6 : 71.9

Elongation %

13.7 : 14.2

(ASTM E1251)

Chemistry:

Actual(wt%)

SI

FE

CU

MN

MG

CR

ZN

TI

V

ZR

TOT

OTHER

CERTIFIED TEST REPORT

Serial Number
4387495

ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
MIN(1%)	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX(1%)	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15

Aluminum Remainder

DAS 14 9-89
ORDER COMMENTS
AMC CA-15403 R E
AMS 4045, AMS QQ-A-250/12, AMS STD-2154, A
STM B209, ASTM B594, BS
S 7055, CMMP 025, CSTI 006, DPS 4.713, GAMP
S 9101, PS 21211

TEST NOTES

Metal represented by this test report was 100% immersion
ultrasonically tested from one side with 3mm dead zones top
and bottom and meets the Class A and Class B requirements of
all specifications referenced on this test report. No
surface marking of sonic indications is performed.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser), is ISO 9001:2008/AS9100C certified and hereby certifies that all material shipped under this order:
* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein. For material thicknesses outside specification limits, mechanical properties are
* as shown herein and chemical composition meets specification requirements.
* was melted in the United States of America or a qualifying country per DPAAS 225.672-1(a), was manufactured in the United States of America, and meets the requirements of DPAAS 252.225 for
* domestic content.
* has been thermally processed in compliance with AMS 2772, where applicable.
* is mercury free, within the limits of detection of ASTM E1251 (4 ppm).
* is in compliance with RoHS 2, European Union Directive 2011/65/EU.
* is in compliance with and regularly monitors any updates to the European Chemical Agency, ECHA, REACH regulations, (EC) n°1907/2006.
Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum Laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, LABORATORIES SUPERVISOR

James Hemenway



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER
Purchase Order ID PO30678
Purchase Order Date 12/7/2015
PO Print Date 12/7/2015
Page Number 1 of 4

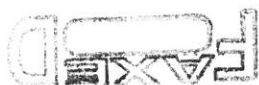
Order From :

VU-MET002

Ship To : DART AEROSPACE LTD

METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W 0E9
CANADA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA



Contact Name	Buyer	Chantal Lavoie
Vendor Phone	Customer POID	
Ship To Contact	Customer Tax #	10127-2607
Ship To Phone	Terms	Net 30
Ship Via:	Currency	USD
Ship Acct:	FOB	Destination-Collect

Line	Reference	Description/	Reg Date/	CD	Reg Qty/	Unit of	Measure	PO Unit Price	Extended
Nbr	Vendor Part Number	Mfg ID	Taxable					Price	Price
Line Comments									
Delivery Comments									

1	M303BI.000X1.000	303 BAR 1" X 1"	12/14/2015	Yes	12.00	f		\$12.74	\$152.88
MATERIAL: AISI 303 SS BAR AS PER ASTM A582									
NOTE: AISI 304/316 NOT ACCEPTABLE									
Line Total:									
									\$152.88

2	M303R2.000	303 ROUND BAR 2"	12/14/2015	Yes	12.00	f		\$19.98	\$239.76
MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582									
NOTE: AISI 304/316 NOT ACCEPTABLE									
Line Total:									
									\$239.76

Note:

12/7/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER
Purchase Order ID PO30678
Purchase Order Date 12/7/2015
PO Print Date 12/7/2015

Page Number 2 of 4

Order From :

METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W 0E9
CANADA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone

Ship To Contact
Ship To Phone

Ship Via:
Ship Acct:

Yours ppd

FOB

Currency

Terms

Customer Tax #

Customer POID

Buyer

Chantal Lavoie

10127-2607

Net 30

USD

Destination-Collect

3

M7075T6B6.000X0.250

7075-T6 BAR 6.000" X

12/21/2015

0.250"

Yes

12/21/2015

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

f

12.16

\$16.78

\$204.00

4

M7075T6B6.000X1.000

7075-T6 BAR 6.000" X

12/21/2015

1.000"

Yes

12/21/2015

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

f

11.50

\$48.52

\$558.00

Line Total:

\$204.00

Line Total:

\$558.00

Note:

12/7/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER
Purchase Order ID PO30678
Purchase Order Date 12/7/2015
PO Print Date 12/7/2015

Page Number 3 of 4

Order From :

METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W 0E9
CANADA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone

Ship To Contact
Ship To Phone

Ship Via:
Ship Acct:

Yours ppd

FOB

Currency

Terms

Customer Tax #

Customer POID

Buyer

Chantal Lavoie

10127-2607

Net 30

USD

Destination-Collect

5

M7075T6B7.000X2.000

7075-T6 BAR 7.000" X
2.000" (order in billets)

12/21/2015

Yes

12/21/2015

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

NOTE: CUT TO SIZE 10 PCS AT 13.375" GRAIN DIRECTION ALONG LENGTH

Line Total:

\$1,040.00

6

M7075T6B1.250X07.000

7075-T6 BAR 1.25" X
7.000" ORDER PRE CUT
TO 50.00"

12/21/2015

Yes

12/21/2015

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

NOTE: CUT TO SIZE 3 PCS AT 50" GRAIN DIRECTION ALONG LENGTH

Line Total:

\$762.00

Note:

12/7/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER
Purchase Order ID P030678
Purchase Order Date 12/7/2015
PO Print Date 12/7/2015

Order From : METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W 0E9
CANADA
Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone
Ship To Contact
Ship To Phone
Ship Via:
Ship Acct:
Buyer
Customer POID
Customer Tax #
Terms
Currency
FOB
Destination-Collect

7 M7075T6B4.000X4.000 7075-T6 BAR 4.000" X 4.000" CUT AT 32" LONG 12/21/2015 FN 10.67 \$104.25 \$1,112.00

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE
NOTE: CUT TO SIZE 4 PCS AT 32" GRAIN DIRECTION ALONG LENGTH

8 71401-45 PROCUREMENT 12/21/2015 1.00 \$0.00 \$0.00
Line Total: \$1,112.00
PO Total: \$4,068.64

- Procurement Quality Clauses
- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 7075 T6
DATE: 15/12/22

MATERIAL CERT REC'D: 44
QUANTITY RECEIVED: 11.5'
QUANTITY INSPECTED: 11.5'
QUANTITY REJECTED:

THICKNESS ORDERED: 6.00 X 1.00
THICKNESS RECEIVED: 6.100 X 1.00
SHEET SIZE ORDERED:
SHEET SIZE RECEIVED:

PO / BATCH NO: 30678/133873

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y	
CORRECT FINISH	Y	
CORROSION	Y	
CORRECT GRAIN DIRECTION	Y	
CORRECT MATERIAL	Y	
CORRECT THICKNESS	Y	
PHOTO REQUIRED	Y	
CORRECT MATERIAL	Y	
CORRECT REF # TO LINK CERT	Y	
CORRECT MATERIAL IDENTIFICATION	Y	
CORRECT # ON THE MATERIAL	Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION **ENGINEERING SIGNOFF (if required)**

INSPECTED BY: DAS 14 9-89
DATE: 15/12/22
SIGNED OFF BY: _____
DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in